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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/824,899	04/15/2004	Peter J. Unsworth	99RE059A / ALBRP133USA	7582	
7590 06/27/2006			EXAMINER		
Susan M. Donahue			STARKS, WILBERT L		
Rockwell Auto	mation, 704-P, IP Depart	ment			
1201 South 2nd Street			ART UNIT	PAPER NUMBER	
Milwaukee, WI 53204			2129		
			DATE MAILED: 06/27/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Supplemental	
Notice of Allowability	

Application No.	Applicant(s)		
10/824,899	UNSWORTH ET AL.		
Examiner	Art Unit		
Wilbert L. Starks, Jr.	2129		

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The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	plication. If not include will be mailed in due	ed course. THIS
1. \boxtimes This communication is responsive to <u>the filing of 07/11/200</u>	<u>05</u> .		
2. The allowed claim(s) is/are <u>1,2,5-10,13-26 and 31-41</u> .			
3. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. ☐ A SUBSTITUTE OATH OR DECLARATION must be subminsformal PATENT APPLICATION (PTO-152) which give 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be comply including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date	e been received. e been received in Application No cuments have been received in this of this communication to file a reply MENT of this application. iitted. Note the attached EXAMINER es reason(s) why the oath or declarate st be submitted. son's Patent Drawing Review (PTO- s Amendment / Comment or in the Comme	national stage applica complying with the rec 'S AMENDMENT or N tion is deficient. 948) attached Office action of	quirements
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to 6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	he header according to 37 CFR 1.121(sit of BIOLOGICAL MATERIAL r	d). nust be submitted. I	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal F 6. Interview Summary Paper No./Mail Da 7. Examiner's Amenda 8. Examiner's Stateme 9. Other	(PTO-413), te ment/Comment	

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Art Unit: 2129

DETAILED ACTION

Reasons For Allowance

1. Claims 1-2, 5-10, 13-26, and 31-41 are allowed.

2. The following is an Examiner's statement of reasons for allowance:

The cited prior art taken alone or in combination fails to teach the claimed invention of detecting pump cavitation/blockage and seal failure, as claimed by Applicant. Specifically, independent claims 1, 9, 19, 26, 32, 33, and 36 disclose the use of a "one-shot" neural network for this purpose.

- 3. The closest prior art of llott, P.W., et al teaches the use of neural networks for the development of a pumping system decision support tool, but fails to teach or suggest the use of a "one-shot" neural network. To the extent that this feature is not present in the prior art cited by Examiner, the present case is found to be allowable over the art of record.
- 4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

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5. This application is in condition for allowance except for the following formal

matters:

6. Claims 29 and 30 are dependent upon cancelled claim 28. If these claims are

either cancelled or made dependent upon one of the independent claims already

allowed in this case above, the defect will be cured (aside from having to renumber the

claims to reflect the changes.)

7. Prosecution on the merits is closed in accordance with the practice under Ex

parte Quayle, 1935 C.D. 11, 453 O.G. 213.

8. A shortened statutory period for reply to this action is set to expire **TWO**

MONTHS from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the

Examiner should be directed to Wilbert L. Starks, Jr. whose telephone number is (571)

272-3691.

Alternatively, inquiries may be directed to the following:

S. P. E. David Vincent

(571) 272-3080

Official (FAX)

(571) 273-8300

Wilbert L. Starks, Jr. Brimary Examiner

WLS

24 June 2006